

April 18, 1933.

C. J. AANENSON

1,904,773

RADIO GROUND

Filed March 10, 1931

2 Sheets-Sheet 1

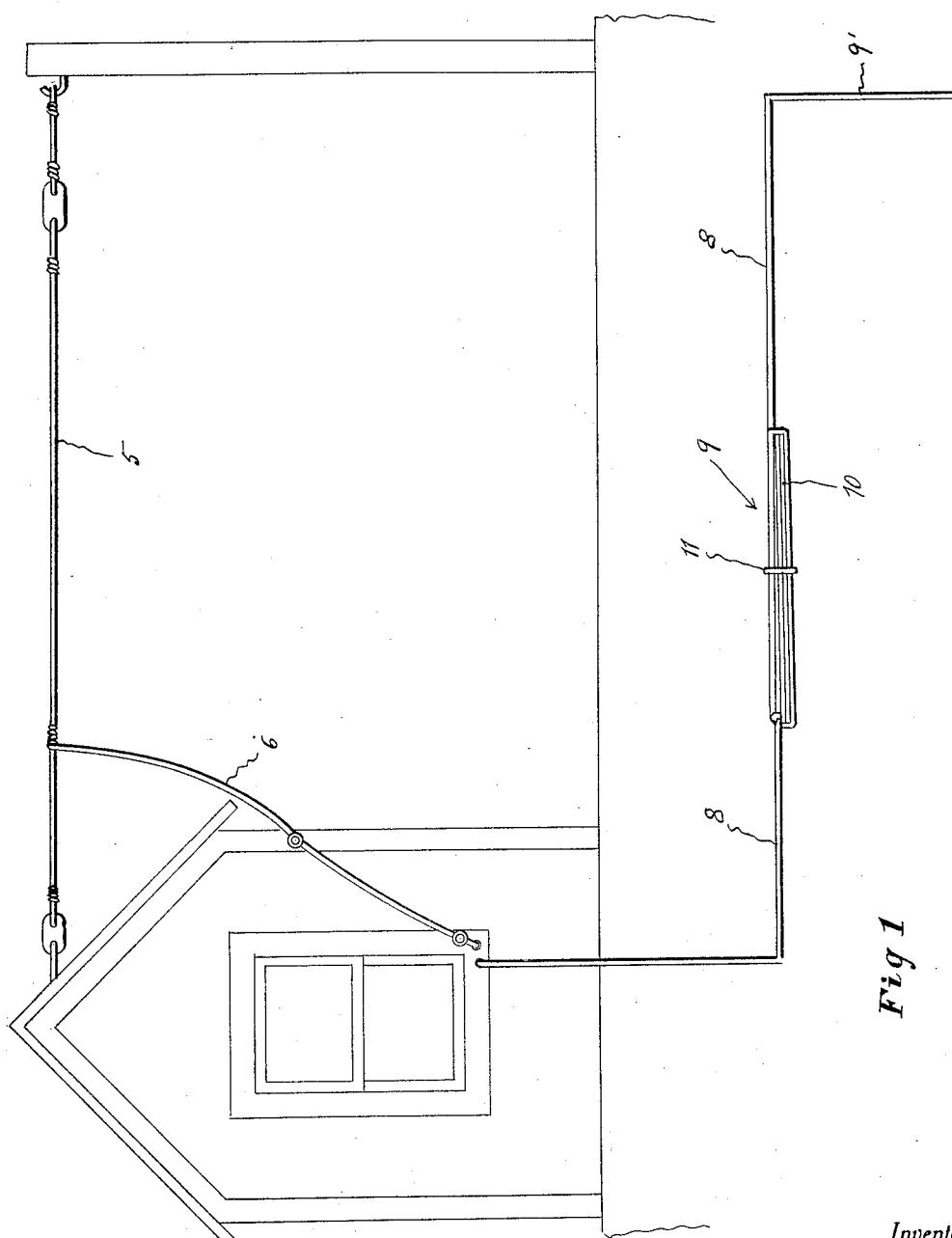


Fig 1

Inventor

Christ J. Aanenson

By *Clarence O'Brien*
Attorney

April 18, 1933.

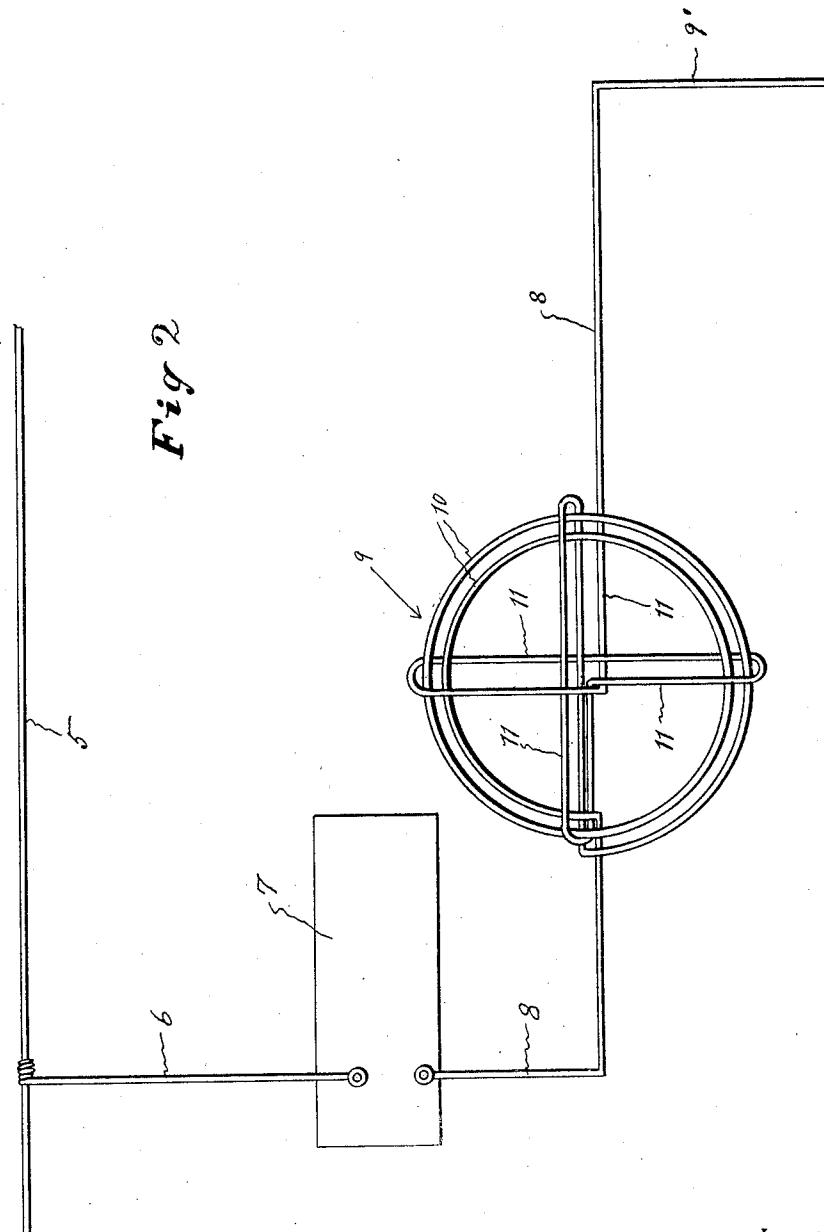
C. J. AANENSON

1,904,773

RADIO GROUND

Filed March 10, 1931

2 Sheets-Sheet 2



Inventor

Christ J. Aanenson

By *Clarence O'Brien*
Attorney

UNITED STATES PATENT OFFICE

CHRIST J. AANENSON, OF MAGNOLIA, MINNESOTA

RADIO GROUND

Application filed March 10, 1931. Serial No. 521,539.

This invention appertains to improvements in ground devices for radio apparatus.

The principal object of this invention resides in the provision of a novel radio ground device for the elimination of fading of volume, increase of range and the promotion of selectivity.

Other important objects and advantages of the invention will become apparent to the reader of the following specification and claim.

In the drawings:

Figure 1 represents a diagrammatic view disclosing the ground and the manner in which it is associated with the usual aerial.

Fig. 2 represents a diagrammatic view disclosing in plan the formation of the annular construction of the ground.

Referring to the drawings wherein like numerals designate like parts, it can be seen that numeral 5 represents the usual antenna from which extends the lead-in wire 6 connected to the usual antenna post on the receiver 7 as shown in Fig. 2.

Extending from the ground post of the receiver 7 is the wire 8 of suitable constructive material, which leads to the annular formation generally referred to by numeral 9. This formation along the horizontal portion of the wire 8 is approximately ten inches under the surface of the earth. Extending from the formation 9 is the same wire 8, of which the formation 9 is constructed and this leads to the downwardly disposed portion 9' which may be in the form of a peg of copper or some other suitable conductive material.

It will be observed in Fig. 2, that the annular formation 9 simply consists in the wire 8 into several convolutions 10 and training the same diametrically across the convolutions to provide right angularly disposed spoke portions 11. This annular formation is disposed horizontally under the earth in the manner shown in Fig. 1 and it is submitted that this annular formation 9 materially increases the efficiency of the ground device.

While the foregoing specification sets forth the invention in specific terms, it is to be

understood that numerous changes in the shape, size and materials may be resorted to without departing from the spirit and scope of the invention as claimed hereinafter.

Having thus described my invention, what I claim as new is:

In a ground terminal for radios, a single length of wire having an intermediate portion formed with a plurality of convolutions and diametrical elongated loops, said loops being at right angles to each other and having the intermediate portions thereof located approximately at the axis of said convolutions and being interlocked, said convolutions being extended through and being restrained by the outer portions of said elongated loops.

In testimony whereof I affix my signature.

CHRIST J. AANENSON.

70

75

80

85

90

95

100